

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P485941

Luminaire Tested: **ORLG-24-2-INS-A125-LD4-3STD-27-120-EDD**

Issue Date: 3/1/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P485941
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35355)
Test Lab: INNOVATION CENTER
Issue Date: 3/1/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-2-INS-A125-LD4-3STD-27-120-EDD
Description: 2X2 ORL LED LUMINAIRE WITH A125 LENS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

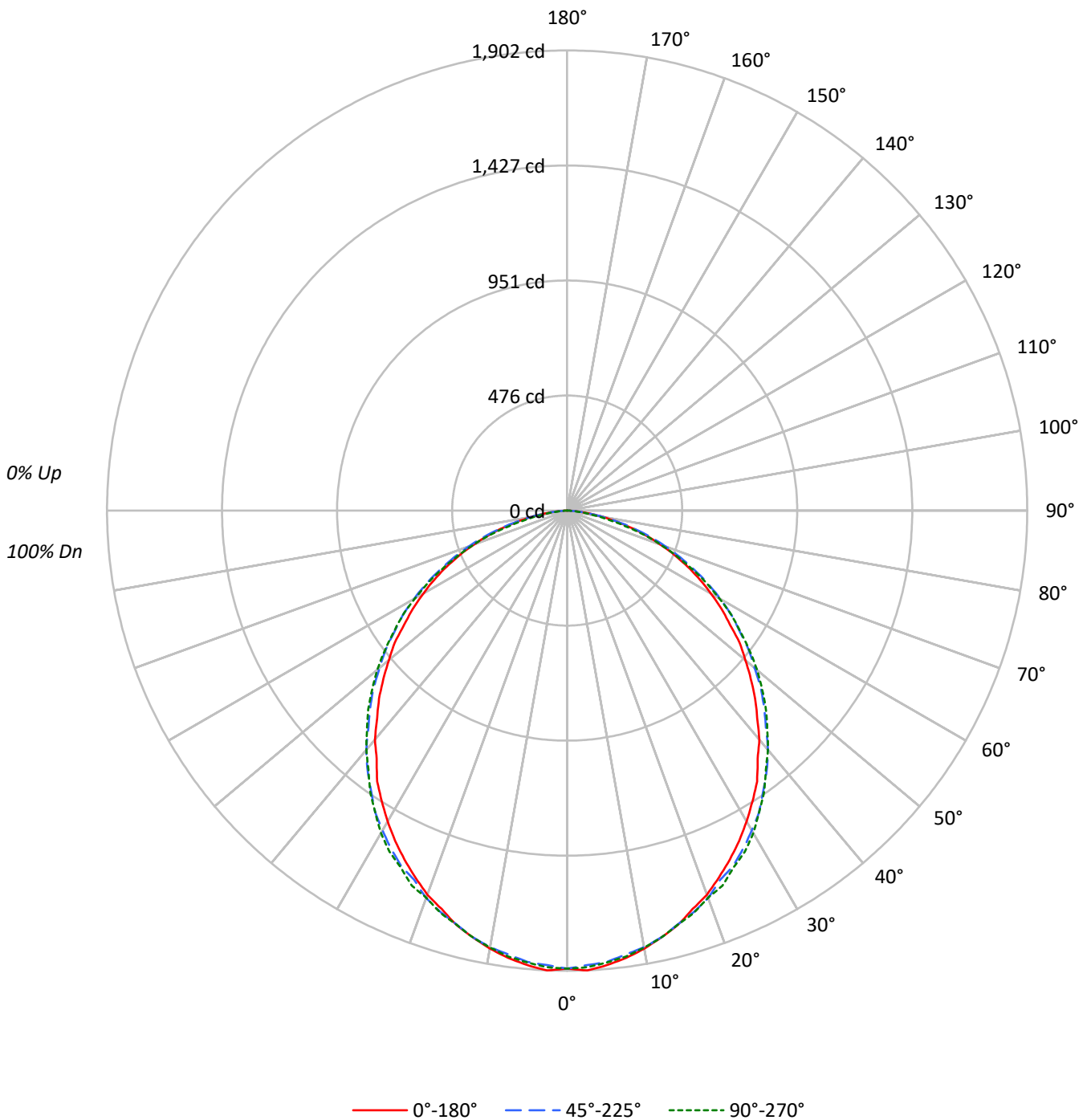
Lumens per Lamp: N/A
Luminaire Lumens: 4862.8 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.21 / 1.32
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									20									
RC	80									70									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																														
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																												
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85																												
2	100	92	85	79	97	90	84	79	86	81	77	83	79	75	80	76	73	71																												
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60																												
4	83	72	63	57	81	70	62	56	68	61	55	66	59	55	63	58	54	52																												
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45																												
6	71	58	49	43	69	57	49	43	55	48	42	53	47	42	52	46	41	39																												
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	37	35																												
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31																												
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28																												
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26																												

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5095	5095	5095
5°	5095	5058	5066
10°	5023	5006	5012
15°	4937	4931	4934
20°	4838	4879	4876
25°	4724	4816	4831
30°	4609	4744	4783
35°	4495	4641	4662
40°	4341	4538	4534
45°	4184	4380	4424
50°	4026	4234	4290
55°	3856	4084	4108
60°	3694	3939	3911
65°	3500	3698	3625
70°	3225	3396	3242
75°	2852	2970	2594
80°	2294	2326	1813
85°	1501	1439	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.9	3.7
10°-20°	500.4	10.3
20°-30°	745.0	15.3
30°-40°	876.9	18.0
40°-50°	879.2	18.1
50°-60°	770.9	15.9
60°-70°	563.7	11.6
70°-80°	290.5	6.0
80°-90°	58.3	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1423.3	29.3
0°-40°	2300.1	47.3
0°-60°	3950.2	81.2
0°-90°	4862.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4862.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1893	1893	1893	1893	1893	
5°	1886	1874	1872	1885	1876	179
15°	1772	1775	1770	1781	1771	499
25°	1591	1598	1622	1645	1627	733
35°	1368	1375	1413	1428	1419	852
45°	1099	1104	1151	1166	1162	847
55°	822	840	870	883	876	738
65°	550	562	581	579	569	544
75°	274	276	286	266	250	291
85°	49	48	47	37	34	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1893.2	1893.2	1893.2	1893.2	1893.2
2.5°	1902.5	1893.2	1880.8	1891.1	1889.1
5°	1886.0	1873.5	1872.5	1884.9	1875.6
7.5°	1865.2	1863.2	1850.8	1864.2	1859.0
10°	1838.3	1836.3	1832.1	1841.4	1834.2
12.5°	1806.2	1804.2	1806.2	1811.4	1806.2
15°	1772.1	1775.2	1770.0	1781.4	1771.1
17.5°	1726.5	1729.7	1740.0	1744.1	1743.1
20°	1689.3	1691.4	1703.8	1720.3	1702.7
22.5°	1640.6	1645.8	1652.0	1682.0	1677.9
25°	1590.9	1598.2	1622.0	1644.8	1627.2
27.5°	1539.2	1546.4	1575.4	1592.0	1589.9
30°	1483.3	1490.5	1526.8	1549.5	1539.2
32.5°	1425.3	1437.8	1477.1	1496.8	1477.1
35°	1368.4	1374.6	1412.9	1428.4	1419.1
37.5°	1292.8	1316.6	1354.9	1365.3	1348.7
40°	1235.9	1236.9	1291.8	1291.8	1290.8
42.5°	1162.4	1179.0	1215.2	1234.9	1224.5
45°	1099.3	1104.5	1151.0	1165.5	1162.4
47.5°	1029.9	1050.6	1084.8	1101.3	1093.1
50°	961.6	976.1	1011.3	1033.0	1024.7
52.5°	898.5	909.9	946.1	958.5	950.2
55°	821.9	840.5	870.5	882.9	875.7
57.5°	755.6	769.1	806.3	810.5	806.3
60°	686.3	701.8	731.8	734.9	726.6
62.5°	620.0	630.4	657.3	658.3	649.0
65°	549.6	562.1	580.7	578.6	569.3
67.5°	480.3	488.6	506.2	498.9	488.6
70°	409.9	417.1	431.6	421.3	412.0
72.5°	341.6	346.8	359.2	343.7	332.3
75°	274.3	276.4	285.7	266.0	249.5
77.5°	208.1	210.1	215.3	195.6	177.0
80°	148.0	148.0	150.1	129.4	117.0
82.5°	93.2	93.2	92.1	76.6	69.4
85°	48.6	47.6	46.6	37.3	34.2
87.5°	17.6	17.6	14.5	13.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)